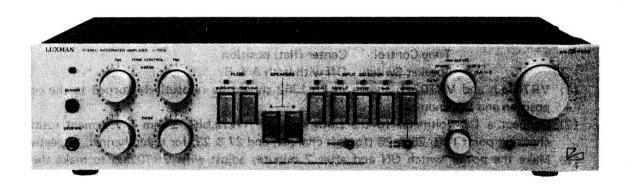


# Luxman solid state stereo L-116A





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#### L-116A ALIGNMENT PROCEDURES

#### L-116A Alignment Procedures

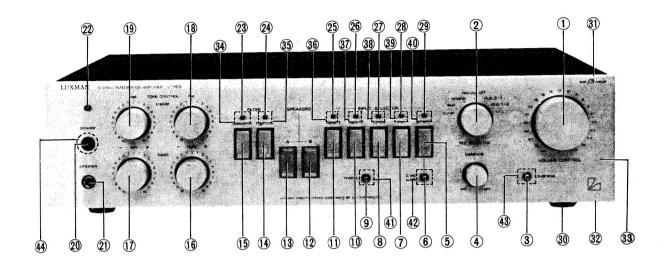
1) Idling Current Adjustment

Setting condition - Volume Control: minimum

Tone Control: Center (flat) position Speaker Switch: Off with both A & B.

- (1) VR701a.b and VR702a.b shown in PB-1362 should be respectively turned to the center position and left-endmost.
- (2) Connect a DC voltmeter to the both ends of R727a.b(0.33-ohm 5W cement resistor), checking point Nos. 25 & 26 (for left channel) and 27 & 28 (for right channel) respectively.
- (3) Make the power switch ON and after 2 minutes adjust with VR702a.b to make the DC voltmeter connected in above-mentioned procedure (2) read 33mV.
- 2) Center Voltage Adjustment
  - (1) Connect a DC voltmeter to the right and left channels of the spaker terminal "A" respectively.
  - (2) Push the speaker switch "A" and adjust with VR701a.b to make the DC voltmeter connected in above-mentioned procedure (1) read 0V.
    - \* The affix a.b of VR701a.b & VR702a.b stands for right and left channels.

# **FRONT VIEW**

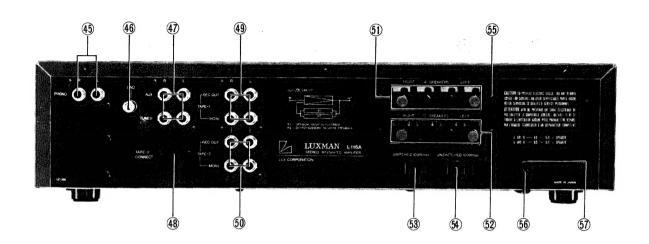


# PARTS LIST(COSMETIC)

				CIRCROT	CTOCK		
SYMBOL	STOCK	DESCRIPTION	REMARK	SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
NO.	NO.			NO.	110.		
	(Knob)						
1	WH1105	Volume Control		11	WJ1142P	Tape-1	
2	WH1117	Rec Selector		12	WJ1142P	Speaker-B	
3	WJ1145	Loudness		13	WJ1142P	Speaker-A	
4	WJ1118	Balance Control		14	WJ1142P	High Cut	
5	WJ1142P	Phono		15	WJ1142P	Subsonic	
6	WJ1145	Phono MC.MM Selecto	r .	16	WH1117	Bass Control Right	
7	WJ1142P	Aux		17	WH1117	Bass Control Left	
8	WJ1142P	Tuner		18	WH1117	Treble Control Right	
9	WJ1145	Mode		19	WH1117	Treble Control Left	
10	WJ1142P	Tape-2		20	WJ1133	Power	
	(LED)				(Head Ph	one Jack)	
22	TD0196	SLR-30UR, Pilot		21	AJ0014	LJ-264-1-7	
23	TD0223	SEL1910A, Subsonic			/C 1-	- ! `	
24	TD0223	SEL1910A, High Cut			(Case As	ss y)	
25	TD0222	SEL1710K, Tape-1		30	WN0007	Foot	
26	TD0222	SEL1710K, Tape-2		31	UG1032	Bonnet 1032	
27	TD0222	SEL1710K, Tuner		32	UE1107	Bottom Plate 1107	
28	TD0222	SEL1710K, Aux					
29	TD0222	SEL1710K, Phono					
	(Front P	anel A'ssy)					
33	WA1226	Front Panel 1226	T				
34-40	WE1097	Protector 1097					
41	WE10951	Protector 1095 1/2					
42	WE10951	Protector 1095 1/2				·	
43	WE10951	Protector 1095 1/2					
44	WE1089	Protector 1089					

### \_-116A

#### **REAR VIEW**



#### **PARTS LIST**

SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK	SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
	(Termina	1)			(Extra	AC Outlet) E Only	
45	AT0120	Input 2P, Phono		*53	AC0010	MD-40 Switched	E
46	AG0048	Ground		*54	AC0010	MD-40 Un Switched	E
47	AT0122	Input 4P, Aux Tuner	<u>.</u>		(Door D	ana1)	
48	AS0205	DIN			(Rear P	anel)	
49	AT0109	Input 4P, Tape-1		*55	UC1198	Rear Panel 1198	E
50	AT0109	Input 4P, Tape-2			UC1197	Rear Panel 1197	S
51	AT0080	Speaker A			(Power	Cand	
52	AT0080	Speaker B			(Power	cora)	
	(Puching	- \		*56	BK0018	A-18BF	EZ
	(Bushing	5)			BK0022	C2-461-B	EK SK
*57	BU0033	SR-4N-4	EK EZ SK		BK0023	SAA Mini	EG SG
	BU0039	SR-5N-4	EG SG				<b></b>

\*Note: In this manual the parts, which differs depending on destination and mains voltage, are classified indicated as follows:

EZ: 120V For North America, South East Asia,

Middle East Asia, Middle South America

E EK: 220V For Europe, South Asia, East Asia,
Middle Fast Asia, Middle South America

Middle East Asia, Middle South America EG: 240V For England, Australia, New Zealand

SK: 220V For Europe, South East Asia, South America

S SG: 240V For England, Oceania

\* E Type All With Line Voltage Selector

# **MECHANISM**

					r		Г
SYMBOL	STOCK	DESCRIPTION	REMARK	SYMBOL	l .	DESCRIPTION	REMARK
NO.	NO.	DEBORTITOR	I COLUMN	NO.	NO.		
	(Switch,	Flexible Cable)				tor, Varistor, Fixing	g Metal)
SW001	SP0090	Push, SDG5P-502 5A I	Power		TV0026	STV-2H, Varistor	
SW101	SZ0016	F-Cable, SWR-1204 Fo	r SW501	Q708ab	TR0029	2SC-945	
SW201		Input Selector			UR1283	Fixing Metal 1283	
SW207	SP0184	Push, Filter			TR0190	2SC-1624	
SW301	SR0152	Rotary, Rec Selector	<u> </u>		TR0188	2SA-814	
SW501	SP0182	Push, Mode, MC-MM Sel	lector		TR0295	2SC-2581	
SW502	SP0183	Push, Loudness		Q715ab	TR0294	2SA-1106	
SW701	SP0185	Push, Speaker Select	or		(Heat Si	nk)	
	SZ0020	F-Cable, Speaker B					
	SZ0021	F-Cable, Speaker A			BE1078	For Power Transiston	r
	(Power T	ransformer)			(Spring)		
*	PT7006	P-7006	S		UU1038	For Input Selector	
	PT7007	P-7007	E			Filter Switch Knob	
		ltage Selector) E On:	ly		(Potenti	ometer)	
*	AC0014	Plug P-2120	Е	VR001	RV0266	100KΩ Bx2 CT Volume	
*	AC0054	Socket M-1615	E		RV0275	250KΩ Z Balance	
***************************************		11			Ы RV0276	50KΩ C T.C Bass	
	(Fuse Ho	lder)		VR602a	ь RV0276	50KΩ C T.C Treble	
*F001	AH0019	X-N1153	S		(LED. LE	D Socket)	
	AH5004	н0445	E				
	(T )				TD0196	SLR-30UR Pilot	
	(Fuse)				AS0206	Socket, L: 250mm	
*F001	BF0210	5 x 20 2A(T)	EK.S	D401	TD0222	Yellow, Phono	
	BF0213	5 x 20 4A(T)	EZ	D402	TD0222	Yellow, Aux	
F701	BF0206	5 x 20 500mA(T)		D403	TD0222	Yellow, Tuner	
F702	BF0206	5 x 20 500mA(T)		D404	TD0222	Yellow, Tape-2	
F703	BF0206	5 x 20 500mA(T)		D405	TD0222	Yellow, Tape-1	
	4	Matarial)		D406	TD0223	Orange, High Cut	
	(racking	Material)		D407	TD0223	Orange, Subsonic	
	XB1046	Pad A 1046					
	XA1287	Carton 1287					
	ME0190	Owner's Manial					

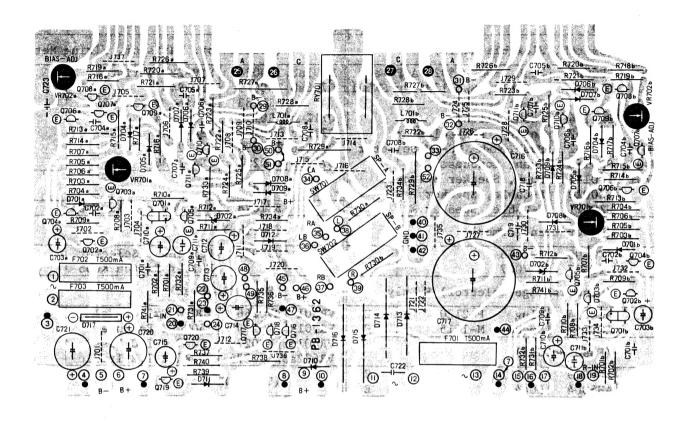
#### Notes:

Flexible Cable Switch Ass'y can be disintegrated into 3 components-Switch Body, Flexible Cable, Switch Mechanism. In this list, the respective disintegrated Components are classified into the categories.

Switch Body - PCB Unit Parts List Flexible Cable - Mechanism Parts List Switch Mechanism - Mechanism Parts List



#### PB-1362POWER AMP, PROTECTOR



# PB-1362 PARTS LIST

SYMBOL	STOCK					SYMBOL	STOCK				
NO.	NO.	DESC	CRIPTION		REMARK	NO.	NO.	DES	CRIPTION		REMARK
	(Resistor	) Unit	-: Ω								
R111ab	RD0461	2.7K	1/3W	Кd		R721ab	RS2508L	47	1/2W	Ro	
R701ab	RD0430	1M	1/3W	Rd		R723ab	RS2565L	360	1/2W	Ro	
R702ab	RD0466	1K	1/3W	Rd		R723ab	RS2565L	360	1/2W	Ro	
R703ab	RS2522L	680	1/2W	Ro		R724ab	RD0456	6.8K	1/3W	Rd	
R704ab	RS2522L	680	1/2W	Ro		R725ab	RD0456	6.8K	1/3W	Rd	
R705ab	RS2513L	120	1/2W	Ro		R726ab	RS2514L	150	1/2W	Rd	
R706ab	RS2513L	120	1/2W	Ro		R727ab	RG0601	0.33	5W	Rc	
R707ab	RD0441	120K	1/3W	Rd		R728ab	RD2530	6.8	1/2W	Rd	
R708ab	RD0446	47K	1/3W	Rd		R729ab	RS5044LA	10	2W	Ro	
R709ab	RD0476	150	1/3W	Rd		R730ab	RS2715LA	330	1W	Ro	
R710ab	RD2594	3.3K	1/2W	Rd		R731ab	RD0453	12K	1/3W	Rd	
R712ab	RD2618	33K	1/2W	Rd		R733ab	RD0489	10	1/3W	Rd	
R713ab	RS2520L	470	1/2W	Ro		R734ab	RD0455	8.2K	1/3W	Rd	
R714a	RD2620	39K	1/2W	Rd		R735	RD0466	1K	1/3W	Rd	
R715ab	RS2501L	10	1/2W	Ro		R736	RD0460	3.3K	1/3W	Rd	
R716ab	RS2514L	150	1/2W	Ro		R737	RD0464	1.5K	1/3W	Rd	
R717a	RD2618	33K	1/2W	Rd		R738	RD0469	560	1/3W	Rd	
R718ab	RD0467	820	1/3W	Rd		R739	RD0460	3.3K	1/3W	Rd	
R719ab	RD0469	560	1/3W	Rd		R740	RD0441	120K	1/3W	Rd	
R720ab	RS2508L	47	1/2W	Ro		R741ab	RD0480	68	1/3W	Rd	

# PB-1362-1365 PARTS LIST

SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK	SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
	(Capacit	or)			(Diode)		
C115 C174	CE1702 CE1721	100μF 6.3WV E1 100μF 16WV E1			TD0053 TD0027	1S-2473 WZ-120 ZENER 12V	
C701ab	CC0006	47PF 50WV Ce			TV0026	STV-3H VARISTOR	
C701ab	CC0000	330PF 50WV Ce			TD0053	1S-2473	
C702ab	CE1717	10µF 16WV E1			TD0053	1S-2473	
C703ab	CM0114	22PF 500WV Mi		1	TD0053	1S-2473	ļ
		0.033µF 50WV My			TD0053	1S-2473	
		0.01µF 50WV Ce			TD0053	1S-2473	
C707ab		0.01µF 50WV Ce		D709ab	TD0053	1S-2473	
	CQ1315	0.015μF 50WV My		D710ab	TD0002	1N-4002	
C709ab		5PF 50WV Ce		D711	TD0053	1S-2473	
C710ab	CE1701	47μF 6.3WV E1		D712ab	TD0002	1N-4002	
C711ab	CQ1441	6800PF 50WV St		D713	TD0160F	S3V-40 (F4)	
C712	CE1704	330µF 6.3WV E1		D714	TD0160F	S3V-40 (F4)	
C713	CE1704	330µF 6.3WV E1		D715	TD0160F	S3V-40 (F4)	
C716	CE1016	10000µF 56WV E1		D716	TD0160F	S3V-40 (F4)	
C717	CE1016	10000µF 56WV E1		D717	TD0142	S1VB-20	
C718	CQ2006	0.47µF 125WV Fi		D718	TD0002	1N-4002	
C719	CQ2006	0.47µF 125WV Fi			(Transis	tor)	
C720	CE1761	470μF 50WV E1					
C721	CE1761	470μF 50WV E1			TF0014	2SK-129A	
	(Switch)				TR0029	2SC-945	
					TR0029	2SC-945	
SW701ab		Slide, SSR22351D			TR0043	2SA-733	
SW702ab	SS0138	Slide, SSR22351D			TR0323	2SC-1845	
	(Trimmin	g Potentiometer)			TR0320	2SA-992	
					TR0237	2SA-949	
VR701ab		$100\Omega$ (B) SR1PR			TR0029	2SC-945	
VR702ab	RT0007	$470\Omega$ (B) SR1PR			TR0236	2SC-2229	
	(Fuse, F	use Holder)			TR0198	2SC-1815	
			1		TR0087	2SA-1015	
F701	BF0206	$5 \times 20  0.5A(T)$			TR0190	2SC-1624	
F702	BF0206	$5 \times 20  0.5A(T)$			TR0188	2SA-814	
F703	BF0206	$5 \times 20$ 0.5A(T)			TR0295	2SC-2581	
F701	AH0028	23165102-C		11	TR0294	2SA-1106	
F702	AH0028	23165102-C		Q716	TR0029	2SC-945 2SC-945	
F703	AH0028	23165102-C	1	Q717 Q718	TR0029 TR0320	2SA-992	
	(Relay)			Q718 Q719	TR0029	2SC-945	
RY701	AY0046	GZ-12H		Q719 Q720ab	1	2SC-2120	- 54
	(Choke C	oil)			(PCB Boa	ard)	
L701ab	LA1004	LUX-1004-2M/mH			PC1362	PB-1362	

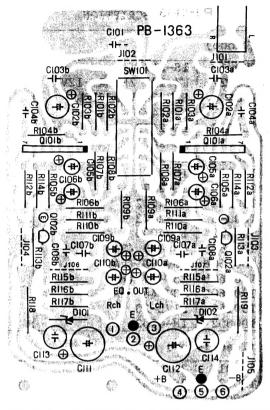
# PB-1365(HEAD PHONE)



	(Resisto	or)			
R302ab	RD0440	150K	1/3W	Rc	
R303ab	RD0440	150K	1/3W	Rc	
	(DIN Cor	nector)			
	AS0205	5P			
	(PCB Boa	rd)			
	PD1363	PB-136	3, 4, 5,	6	

# PB-1363-1364 PARTS LIST

#### PB-1363-EQUOLIZER

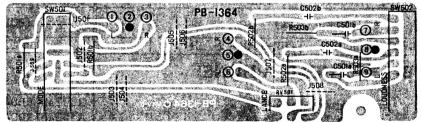


	SYMBOL		DESC	RIPTION		REMARK
	NO.	NO.	L			
		(Resistor	r) Unit	: Ω		
	R101ab	RD0474	220	1/3W	Rd	
	R102ab	RD0434	470K	1/3W	Rd	
	R103ab	RD0446	47K	1/3W	Rd	
	R104ab	RD0472	330	1/3W	Rd	
	R105ab	RD0474	220	1/3W	Rd	
	R106ab	RD0483	39	1/3W	Rd	
	R107ab	RD0434	470K	1/3W	Rd	
	R108ab	RD0434	470K	1/3W	Rd	4
	R109ab	RD0470	470	1/3W	Rd	
	R110ab	RD0451	18K	1/3W	Rd	
	Rlllab	RD2137	200K	1/3W	Rd	
	R112ab	RD0470	470	1/3W	Rd	
	R113ab		10K	1/3W	Rd	
	R114ab	RD0456	6.8K	1/3W	Rd	
	R115ab		82K	1/3W	Rd	
	R116ab	RD0469	560	1/3W	Rd	
	R117ab	RD0438	220K	1/3W	Rd	
	R118	RS2746LA		1W	Ro	
	R119	RS2746LA	560	1W	Ro	
		(Zener)				
	D101	TD0210	BZ-260		26V	
	D102	TD0210	BZ-260		26V	
		(IC, Tran	nsistor)			
7	Q101ab	TC0179	M-5214L			
	Q102ab	TR0320	2SA-992			
		(PCB Boar	rd)			
		PD1363	PB-1363	, 4, 5,	6	
1	C108ab	CQ1618	0.015μF	50WV	Му	

								•			
SYMBOL NO.	STOCK NO.	DESCR	IPTIO	Ŋ	REMARK		TC0179 TR0320	M-5214L 2SA-992			
	2.00										
	(Switch)				(PCB Boa	rd)					
SW101	SS0139	Slide, S	SR-243	35 <b>1</b> D			PD1363	PB-1363	, 4, 5	5, 6	
	(Capacit	or)									
C101	CK0157	0.047µF	25WV	Ce		C108ab	CQ1618	0.015µF	50WV	Му	
C102ab	CE0781	22µF	35WV	LR E1		C109ab	CE1709	33µF	10WV	E1	
C103ab	CC0006	47PF	50WV	Ce		C110ab	CE0787	2.2µF	50WV	LR E1	
C104ab	CC0006	47PF	50WV	Ce		C111	CE1744	220µF	35WV	E1	
C105ab	CE0784	0.33µF	50WV	LR E1		C112	CE1744	220µF	35WV	E1	
C106ab	CE0784	0.33µF	50 <b>WV</b>	LR E1		C113	CQ1441	6800PF	50 <b>W</b> V	St	
C107ab	CQ1617	3900PF	50 <b>WV</b>	Му		C114	CQ1441	6800PF	50WV	St	

#### PB-1364-MODE, LOUDNESS,

#### **BALANCE CONTROL**

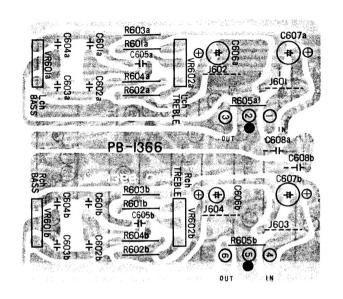


	(Switch, Potentiometer)					(Resisto	r, Capaci	tor, Po	СВ Воа	ard)
SW501ab SW502ab	SP0183	Push,	SUF-12(9250) SUFR-22		R503ab		6.8KΩ 6.8KΩ	1/3W 1/3W	Rd Rd	
VR501ab	RV0275	250K	1Z		C501ab		0.068μF  PB-1363,	-	Му 6	



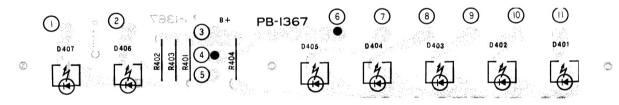
#### PB-1366 • 1367 • 1368 PARTS LIST

#### PB-1366-TONE CONTROL



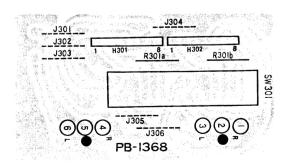
SYMBOL NO.	STOCK NO.	DESC	DESCRIPTION							
	(Resist	or) Unit:	Ω							
R601ab	RD0463	1.8K	1/3W	Rd						
R602ab	RD0472	330	1/3W	Rd						
R603ab	RD0455	8.2K	1/3W	Rd						
R604ab	RD0464	1.5K	1/3W	Rd						
R605ab	RD0444	68K	1/3W	Rd						
(Capacitor)										
C601ab	CQ1308	3900PF	50WV	Му						
C602ab	CQ1317	0.022μF	50WV	My						
C603ab	CQ1319	0.033μF	50WV	My						
C604ab	CQ1311	6800PF	50WV	Мy						
C605ab	CQ1323	0.068µF	50WV	Му						
	(Potent	iometer)								
VR601al	RV0276	50ΚΩ	С							
VR602al	RV0276	50ΚΩ	С							
	(PCB Board)									
	PD1363	PB-1363	4, 5,	6						

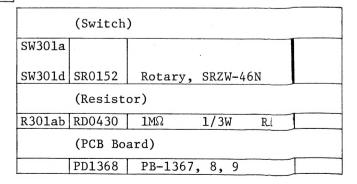
#### PB-1367-LED, PILOT



SYMBOL NO.	STOCK NO.	DESC	CRIPTION		REMARK		(LED)			
	(Resisto	r) Unit	: Ω			D401 D402	TD0222 TD0222	SEL-1710K SEL-1710K	(YELLOW) (YELLOW)	
R401	RD0463	1.8K	1/3W	Rd		D403	TD0222	SEL-1710K	(YELLOW)	
R402	RD0467	820	1/3W	Rd		D404	TD0222	SEL-1710K	(YELLOW)	
R403	RD0467	820	1/3W	Rd		D405	TD0222	SEL-1710K	(YELLOW)	
R404	RD0463	1.8K	1/3W	Rd		D406	TD0223	SEL-1910A	(ORANGE)	
	(PCB Boa	ırd)			•	D407	TD0223	SEL-1910A	(ORANGE)	
	PD1368		7. 8. 9							

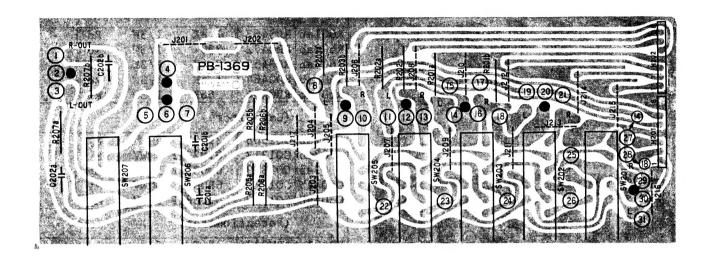
#### PB-1368-REC SELECTOR





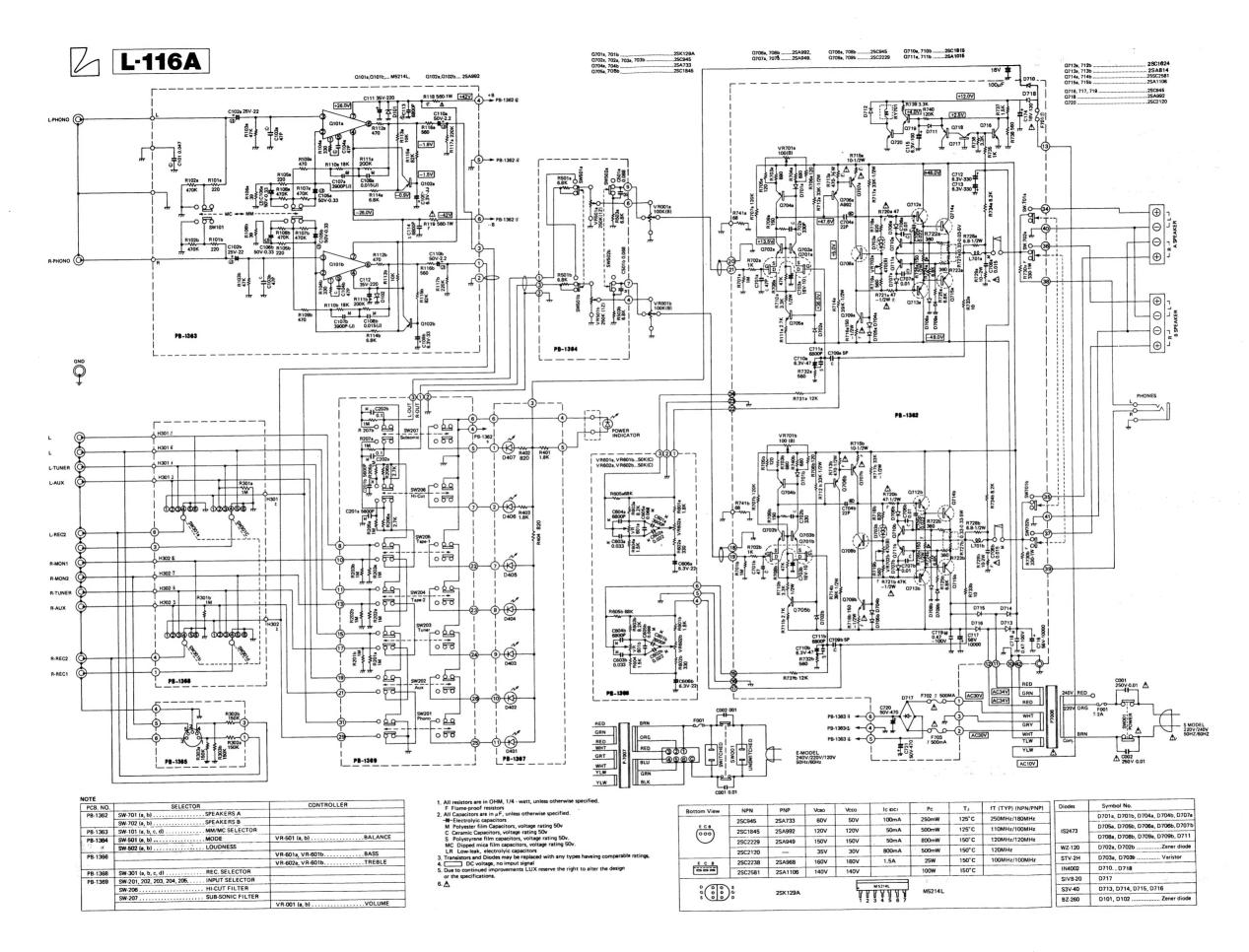


# PB-1369-INPUT SELECTOR, HIGH CUT, SUBSONIC



# PB-1369 PARTS LIST

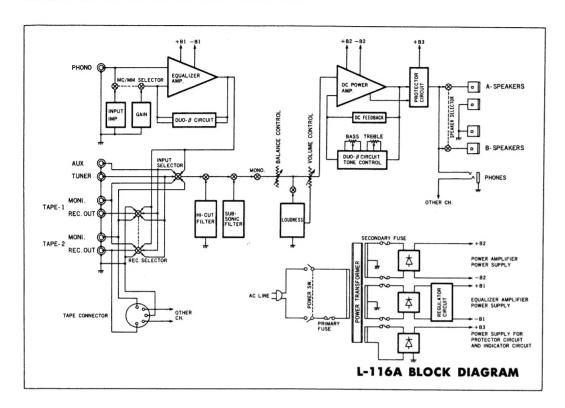
SYMBOL NO.	STOCK NO.	DESCRIPTION			REMARK	SYMBOL NO.	STOCK NO.	DESCRIPTION		REMARK	
(Resistor)						(Capacitor)					
R201ab	RD0430	1M	1/3W	Rd		C201ab	CQ1310	5600PF	50 <b>WV</b>	Му	
R202ab	RD0430	1M	1/3W	Rd		C202ab	CQ1325	0.1µF	50 <b>WV</b>	My	
R203ab	RD0430	1M	1/3W	Rd		(Switch)					
R205ab	RD0430	1M	1/3W	Rd							
R206ab	RD0461	2.7K	1/3W	Rd		SW201					
R207ab	RD0430	1M	1/3W	Rd							
(DCP Roand)						SW207	SP0184	Push, S	UF-73		
(PCB Board)											
PD1368   PB-1367, 8, 9											



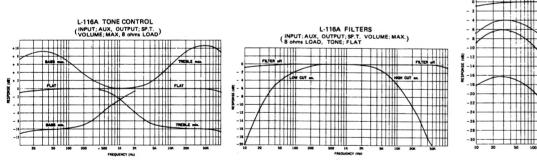


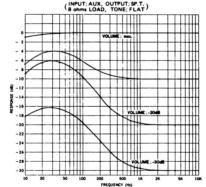


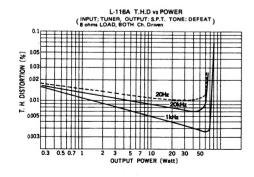
# **BLOCK DIAGRAMME**

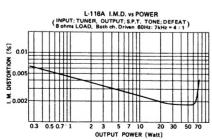


# **STANDARD CURVES**









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# **LUX CORPORATION, JAPAN**

1-1, 1-CHOME, SHINSENRI-NISHIMACHI, TOYONAKA-SHI, OSAKA PHONES: 06-834-0004 CABLE: LUXMAN TOYONAKA TELEX: J63694

Printed in Japan (